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 SERIAL NO.: 10/025,969  
 FILED: December 26, 2001  
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OCT 31 2006

# AMENDMENTS TO THE SPECIFICATION

## In the Specification:

Please replace the paragraph beginning on page 10, line 13 with the following rewritten paragraph:

-- In operation, I signal or Q signal  $x(t)$  may be split into two signals  $x_r(t)$  and  $x_j(t)$  wherein  $x_r(t)$  is the real part of  $x(t)$  and  $x_j(t)$  is the imaginary part of  $x(t)$ .  $x_r(t)$  may be inputted to multipliers 405 and 410.  $x_j(t)$  may be inputted to multipliers 415 and 420. A time phase of inversed impulse response  $h(t)$  may be split to two signals  $h_r(t)$  and  $h_j(t)$ , wherein  $h_r(t)$  is the real part of the impulse response  $h(t)$  and  $h_j(t)$  is the imaginary part of  $h(t)$ .  $h_r(t)$  may be inputted to multipliers 405 and 420 and  $h_j(t)$  may be inputted to multipliers 410 and 415. Outputs of multipliers 405 and ~~[[410]]~~ 415 may be inputted to adder 425 and outputs of multipliers 410 and 420 may be inputted to adder 430. Adder 425 may generate a real multiplication product  $M_r(\omega)$  and adder 430 may generate an imaginary multiplication product  $M_j(\omega)$ . Thus, the frequency domain representation of the complex terms of the multiplication signals may be

$$M_r(\omega) = X_r(\omega) \otimes H_r(\omega) - X_j(\omega) \otimes H_j(\omega)$$

$$M_j(\omega) = X_r(\omega) \otimes H_j(\omega) + X_j(\omega) \otimes H_r(\omega). --$$